B.B.M.P

BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: **Estimate for Improvements to Roads and Drains at Chikkavenkatappa Layout, Deshbandunagara and surrounding area in Ward No. 13, (Doddabommasandra).**

Estimated Cost Rs. 55.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- Improvements to Roads and Drains at Chikkavenkatappa Layout, Deshbandunagara and Surrounding area in Ward No. 13, (Doddabommasandra).

Estimation Cost Rs. 5500000.00

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
1	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge Item No. 19.2.1, **Page No. 163, Vol - II PWD SR**	Cum							
	Dismantling of RCC Drain at Deshabandunagara 5th Main Road								
	Side Wall		2	150.00	0.15	0.60	27.00		
	Bottom Concrete		1	150.00	1.00	0.15	22.50		
	Basic rate	1274.00							
	Area weightage 10%	127.40							
	Sub Total	1401.40							
	Total						**49.50**	1401.40	**69369.00**
2	Providing, laying and spreading available soil in the embankment on a prepared surface, pulverising, mixing the spreaded soil in place with Soil stabilisor with 2% of slaked lime using Binder spreader Machine having minimum content of 70% of CaO, grading with the motor grader and compacting with the road roller at OMC to the desired density to form a layer of improved embankment. (By Mechanical Means, **Item no. 4.11, Page No. 21, Vol - III PWD SR 2021-22**	Cum							
	For Drain Work								
	for Raising of Drain		1	250.00	1.00	0.35	87.50		
	For Road Work								
	5th Main Road Deshabandunagara		1	150.00	4.50	0.30	202.50		
	Basic rate	675.00							
	Area weightage 10%	67.50							
	Sub Total	742.50							
	Total						**290.00**	742.50	**215325.00**
3	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. **(PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)**	Cum							

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	New Drain								
	5th Main Road Deshabandunagara		1	250.00	1.00	1.00	250.00		
	Chikkavenkatappa Layout 2nd Cross		1	70.00	1.00	1.00	70.00		
	For Road Work								
	5th Main Road Deshabandunagara		1	150.00	4.50	0.15	101.25		
	Basic rate	186.00							
	Area weightage 10%	18.60							
	Sub Total	204.60							
	Total						**421.25**	204.60	**86188.00**
4	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. **(PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)**	Cum							
	New Drain Bed Concrete								
	5th Main Road Deshabandunagara		1	250.00	1.00	0.15	37.50		
	Chikkavenkatappa Layout 2nd Cross		1	70.00	1.00	0.15	10.50		
	Issued Rate 07-07-2022 Basic rate	5554.00							
	Area weightage 10%	555.40							
	Sub Total	6109.40							
	Total						**48.00**	6109.40	**293251.00**
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) **(PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2))**	Cum							
	New Drain								
	Raft								
	5th Main Road Deshabandunagara		1	250.00	1.00	0.15	37.50		

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Chikkavenkatappa Layout 2nd Cross		1	70.00	1.00	0.15	10.50		
	Side Wall								
	5th Main Road Deshabandunagara		2	250.00	0.15	0.60	45.00		
	Chikkavenkatappa Layout 2nd Cross		2	70.00	0.15	0.60	12.60		
	Issued Rate 07-07-2022 Basic rate	5968.00							
	Add 5% for Shuttering	298.40							
		6266.40							
	Area weightage 10%	626.64							
	Sub Total	**6893.04**							
	Total						**105.60**	6893.04	**727905.00**
6	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 **(PWD SR 2021-22 Vol - III Pg 99 item no 13.1)**	tonne							
	For Drain	Cum					105.60		
		kg	Steel assumed 60Kg/Cum of Concrete				0.06		
		tonne					**6.34**		
	Issued Rate 07-07-2022 Basic rate	92170.00							
	Area weightage 10%	9217.00							
	Sub Total	**101387.00**							
	Total						**6.34**	101387.00	**642388.00**
7	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **10cm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete. **(Approved Data Rate)**	Sqm							
	Covering Slab								
	5th Main Road Deshabandunagara		1	250.00	0.90		225.00		
	Chikkavenkatappa Layout 2nd Cross		1	68.00	0.90		61.20		
	Data rate	2072.00							
	Total						**286.20**	2072.00	**593006.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
8	Construction of Dry Lean Cement Concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm,aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing. MORTH Specification No. 601 **(PWD SR 2021-22 Vol - III P.No. 43 - I.No. 6.1)**	Cum							
	CC Road								
	5th Main Road Deshabandunagara		1	150.00	4.50	0.15	101.25		
	Pipeline Refilling		1	60.00	0.45	0.15	4.05		
	Issued Rate 07-07-2022 Basic rate	4025.00							
	Area weightage 10%	402.50							
	Sub Total	4427.50							
	Total						**105.30**	4427.50	**466216.00**
9	Providing and constructing un-reinforced plain Cement Concrete Pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS: 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work. **(PWD SR 2021-22 Vol -III Pg 138 item no 20.29)**	Cum							
	CC Road								
	5th Main Road Deshabandunagara		1	150.00	4.50	0.15	101.25		
	Pipeline Refilling		1	60.00	0.45	0.15	4.05		

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Issued Rate 07-07-2022 Basic rate	6512.00							
	Area weightage 10%	651.20							
	Sub Total	7163.20							
	Total						**105.30**	7163.20	**754285.00**
10	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3) **(PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)**	Cum							
	Qty Vide 90% of Item No- (3)						383.34		
	Total						**383.34**	81.40	**31204.00**
	Basic rate	74.00							
	Area Weightage 10%	7.40							
	Total	81.40							
11	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km **(PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)**	T.Km							
	Qty frm Item No - 10			383.34	1.28		490.67		
	Total						**490.67**	115.50	**56672.00**
	15Km 7*15	105.00							
	Area Weightage 10%	10.50							
	Total	115.50							
	BOREWELL								
12	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey 'of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1)Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a)Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above	Each BW							
			1				**1**	5141.00	**5141.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
13	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete **(P. 151 / I. 1) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Rmtr							
	0 to 50 m		1	50.00			**50.00**	290.00	**14500.00**
14	50 to 100 m		1	50.00			**50.00**	364.00	**18200.00**
15	100 to 150 m		1	50.00			**50.00**	387.00	**19350.00**
16	150 to 200 m		1	50.00			**50.00**	449.00	**22450.00**
17	200 to 250 m		1	50.00			**50.00**	527.00	**26350.00**
18	250 to 300 m		1	50.00			**50.00**	558.00	**27900.00**
19	300 to 350 m		1	50.00			**50.00**	620.00	**31000.00**
20	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar - Medium duty **(P. 154, I. 32) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Rmtr							
			1	60.00			**60.00**	1933.00	**115980.00**
21	Providing 250mm dia PVC Pipe 6kg/cm **(P. 34, I. 1175) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Rmtr							
			1	18.00			**18.00**	1100.00	**19800.00**
22	Providing and fixing Borewell Cap & Clamp Set **P. XLVII, SI No. 17 PWD SR 2018-19**	Set							
			1				**1**	1800.00	**1800.00**

SI No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
23	Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications, as per necessary ammendments and instructions of engineer incharge of work **12.50 HP - 90 LPM @ 264 m = 24 STG Outlet Dia - 2.00 (P. 161, I No. 17.7) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	No							
			1				**1**	63498.00	**63498.00**
24	Providing, Laying and Fixing GI pipes conforming to IS 1239:1990 with latest amendments complete with GI fittings (excluding the cost of fittings) with cuts and threads wherever necessary, including testing for water tightness, with all lead and commissioning. (contractor will make his own arrangements for procuring water for testing) **Medium Duty GI pipe of 50mm dia (P 142, I No. 2.6), WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	m							
			1	280.00			**280.00**	479.00	**134120.00**
25	Providing wrought mild steel (galvanized) 50 mm dia GI collar confirming to IS 1239-II, 1991 with latest amendments if any. **(P. 144, I No. 6.5) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Nos							
			1	47			**47**	219.00	**10293.00**
26	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments 50 mm **(P. 162, I No. 28.1) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Nos							
			1				**1**	1275.00	**1275.00**
27	Supply and delivery at site brand new best make starter/ control panel suitable for following HP centrifugal pump confirming with ISI mark and its latest amendments 10 to 120 HP centrifugal pump **(P. 165, I No. 49.3) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	No.							
			1				**1**	35480.00	**35480.00**
28	Submersible Cable 1x3x6.0 Sq.mm **(PWD SR 2018-19 Page No. XLVII SI No. 8)**	M							
			2x1	290.00			**580**	144.00	**83520.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
29	Labour charges for Erection of new / repaired submersible pump set along with GI pipes (32mm / 50mm), cable (New submersible pump set if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (Each length = 6 m) **(P. 154, I No. 28) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Job							
			1	47			**47**	151.00	**7097.00**
30	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws., **P No. 24 / I No. 5.6.6 KPWD Electrical SR 2019-20**	Each							
			1				**1**	292.00	**292.00**
31	Providing, Supplying and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen / insulating compound complete with terminals, clamps, bolts, nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work.**3½x6 Sqm (P. 164, I No. 44.1) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Mtr							
			1	35.00			**35.00**	515.00	**18025.00**
32	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) **P No. 41 / I. No. 6.6.1 KPWD Electrical SR 2019-20**	Mtr							
	For Cutting Road Surface		1	30.00			**30.00**	76.00	**2280.00**
33	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. **P. No. 41 / I No. 6.9.1 KPWD Electrical SR 2019-20**	Mtr							
	40mm dia GI pipe		1	4.00			**4.00**	335.00	**1340.00**
34	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. **P. No. 42 / I.No. 7.10.2 KPWD Electrical SR 2019-20**	No.							
	16Sqmm		1				**1.00**	270.00	**270.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
35	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia **(P. 164, I No. 45) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Job							
			1				**1**	3750.00	**3750.00**
36	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.**P No. 24 / I No. 5.7.2 KPWD Electrical SR 2019-20**	No.							
	32 Amps		1x6				**6**	174.00	**1044.00**
37	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **6-32Amps TPN P No. 27 / I No.5.17.7 KPWD SR 2019-20**	No							
			1				**1**	1715.00	**1715.00**
38	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 30, I. No. 5.42.2 KPWD Electrical SR 2019-20**	Sq.Cm							
	16SWG		2x1	120.00	60.00		14400.00		
			1	360.00	25.00		9000.00		
							23400.00	0.35	**8190.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
39	Earth work excavation for pipeline trenches in all kinds of soils by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & boning rods at every 100 mm whevere necessary as directed, removal of stumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work etc., and all other appurtenances complete in the following strata. **All kinds of soils. Depth upto 1.50 m (P. 10, I 1.17.1) PWD SR 2021-22 Vol - I**	Cum							
			1	90.00	0.45	0.60	24.30		
	Charges Basic Rate	194.00					**24.30**	213.40	**5186.00**
	Area Weightage @ 10%	19.40							
	Total	**213.40**							
40	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately MORTH Specification No. 202 **(PWD SR 2021-22 Vol -III P.No.10 - I.No.2.19)**	Cum							
	CC Road								
	Pipeline		1	60.00	0.45	0.25	6.75		
	Basic rate	422.00							
	Area weightage 10%	42.20							
	Sub Total	464.20							
	Total						**6.75**	464.20	**3133.00**
41	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete., 75mm(weight of pipe -0.917 kg **P .139, I No. 13.1 WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Rmtr							
	75 mm dia 6 KSC PVC pipe		1	150.00			150.00		

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
							150.00	210.00	31500.00
	Charges Basic Rate	210.00							
42	Refilling available earth around trenches / pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications **Item No. 1.10 Page No. 7, PWD SR 2021-22 Vol-I**	Cum							
			Qty. Vide Item No. 39				24.30	103.00	2503.00
	Baisc Rate	103.00							
43	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendment Size 65 mm **P .162, I No. 27.2, WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Each							
			5				5	1550.00	7750.00
								Grand Total	4660541.00
								GST Charges (18% of Executed cost)	838897.00
								Miscellenious and rounding off	562.00
								Total Amount	5500000.00
	Rupees Fifty Five Lakh(s) Only								

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P Limits.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of PWD 2021-22, Issue rates and Data Rates.

Assistant Engineer
Ward No. 13, Doddabommasandra

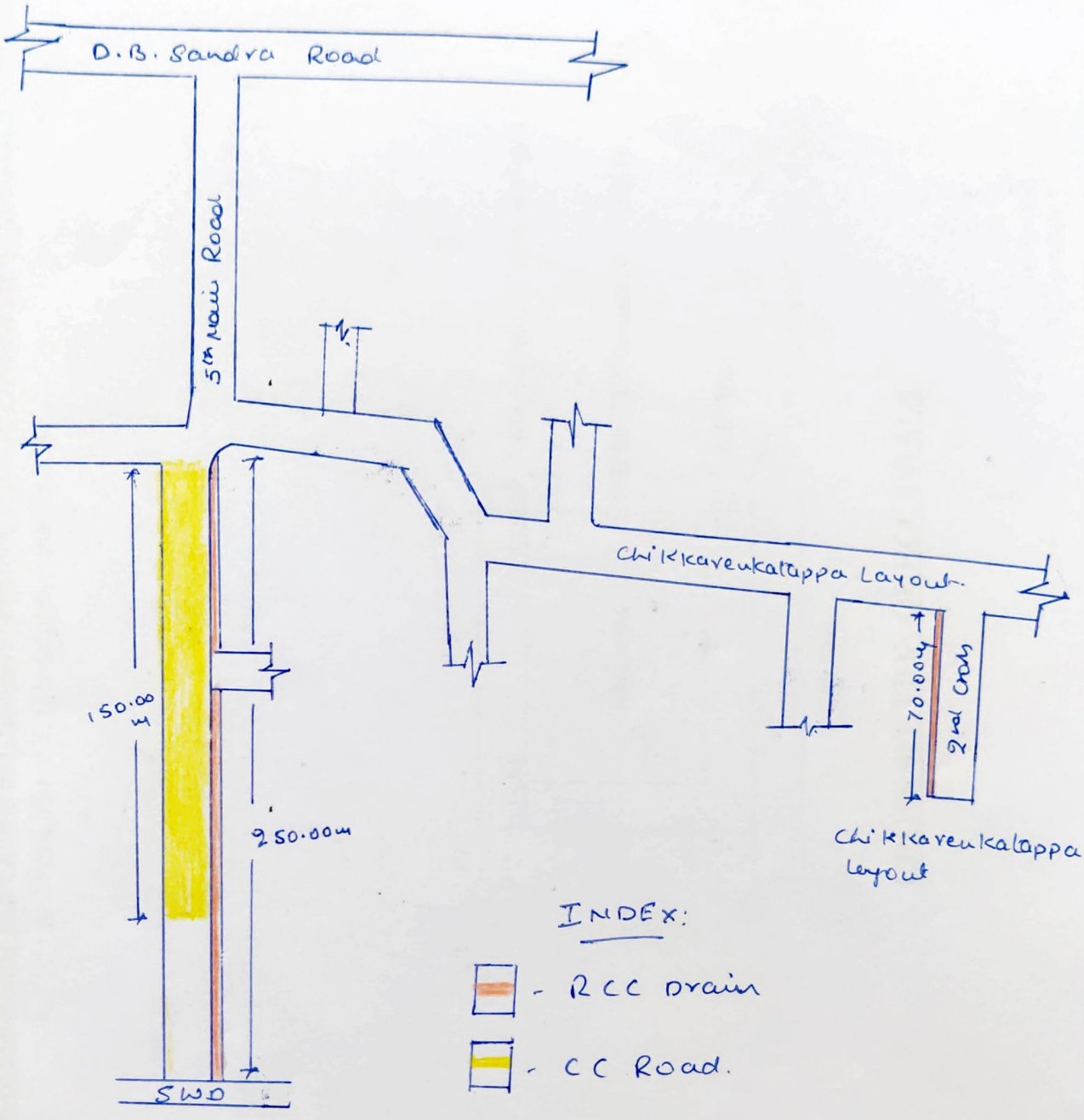
Assistant Executive Engineer
Vidyaranyapura Sub Division

Executive Engineer
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 55.00 Lakhs only
Head of A/C. P3726
Div. Ref No. 57 Date 21/02/23
AE EE(BTP)

Technical Sanction
Accorded For Rs. 55.00 Lakhs
Head of A/C. P3726
CER NO : 21/16/9/22

Name of Work: Improvements to Roads and Drains at Chikkavenkatappa Layout, Deshbandunagara and Surrounding area in Ward No. 13, (Doddabommasandra).



Assistant Engineer
Ward No. 13 Doddabommasandra

Assistant Executive Engineer
Vidyaranyapura Sub Division